Geometry Ch 5 Review

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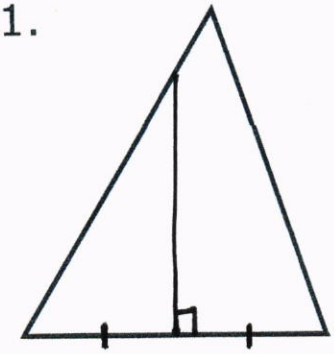
STATION 1 Vocabulary.

Identify the segment shown in each picture.

1.



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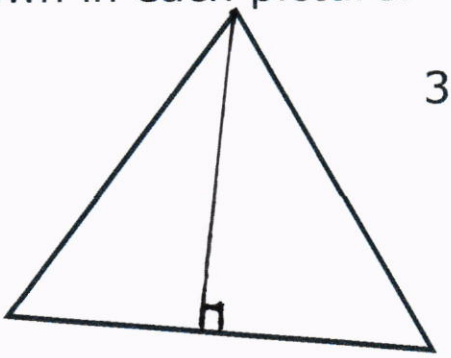

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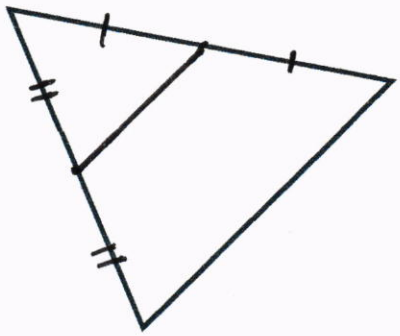

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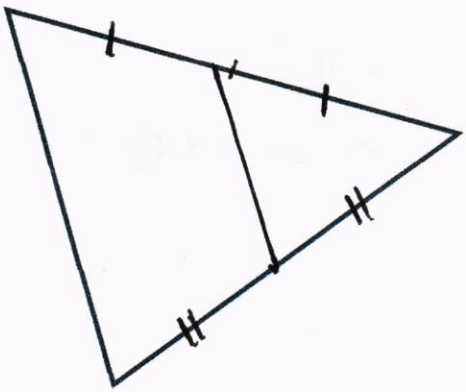

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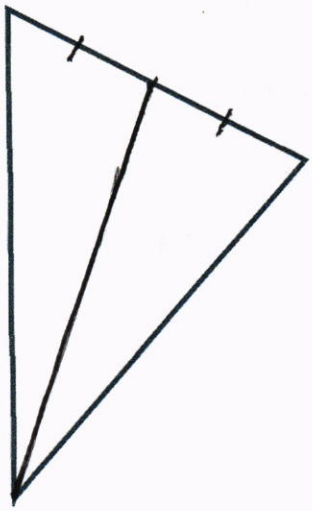

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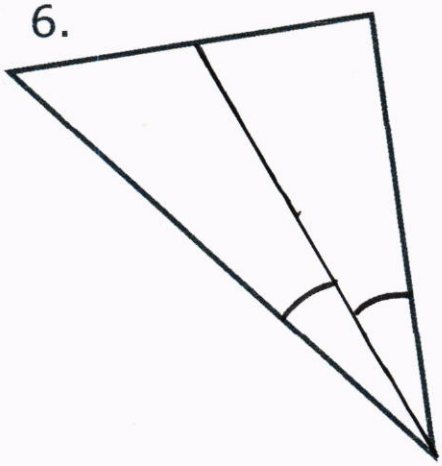

7. A _____ is a line (or ray or segment) that "cuts in half" something else.

8. The point where all 3 median meet is called the _____.

9. A "point in the middle" is called a _____.

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STATION 2 Medians & the Centroid

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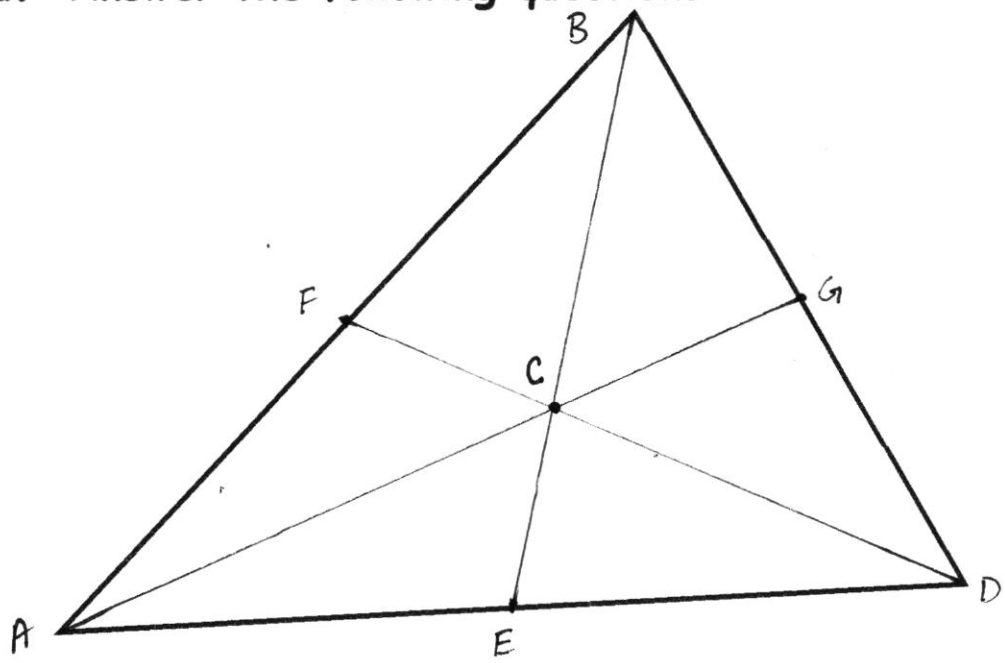
Point C is the centroid. Answer the following questions:



10. If $\overline{CE} = 7$, then $\overline{CB} = ?$ $BE = ?$

11. If $\overline{AC} = 22$, then $\overline{CG} = ?$ $\overline{AG} = ?$

12. If $\overline{FD} = 12$, then $\overline{FC} = ?$ $\overline{CD} = ?$

13. If $\overline{GC} = 3$, then $\overline{CA} = ?$ $\overline{AG} = ?$

14. If $\overline{BC} = 20$, then $\overline{CE} = ?$ $\overline{BE} = ?$

15. If $\overline{AG} = 15$, then $\overline{GG} = ?$ $\overline{AC} = ?$

STATION 3 Midsegments

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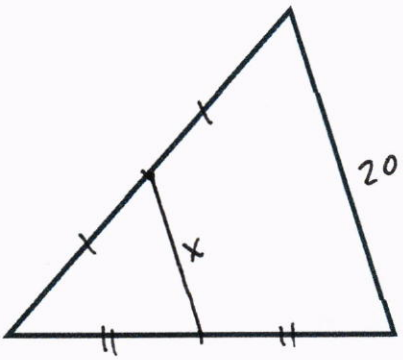
Solve for X in each of the following triangles

16.



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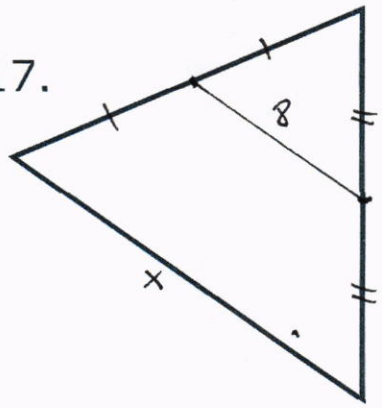

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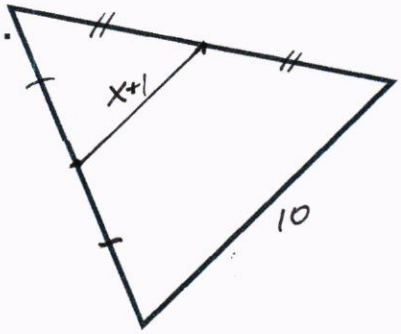

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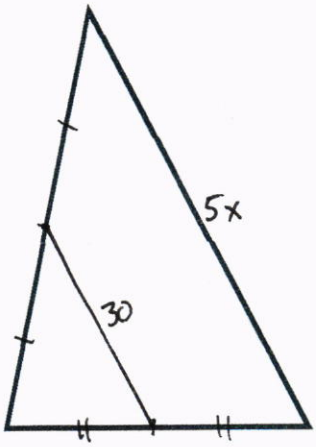

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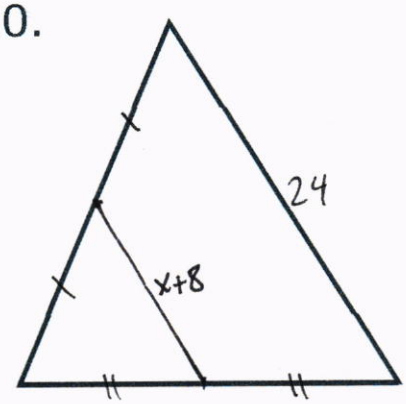

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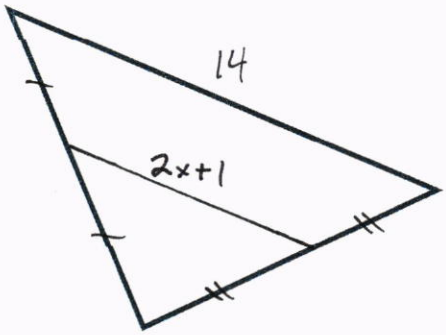

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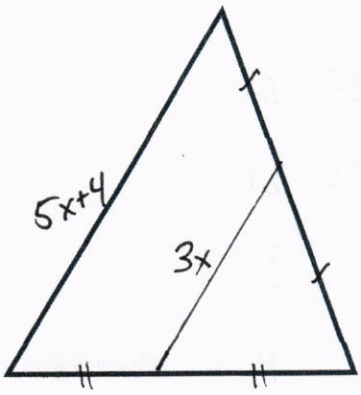

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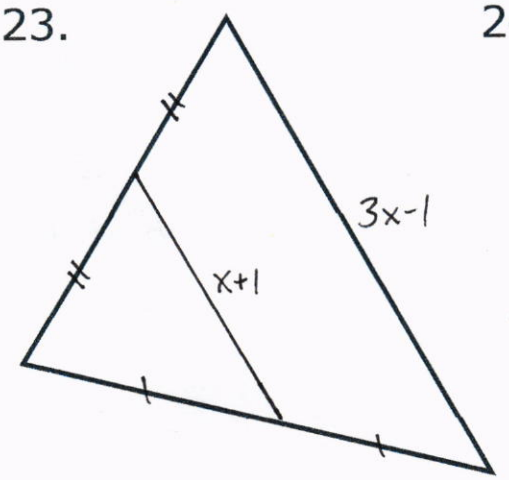

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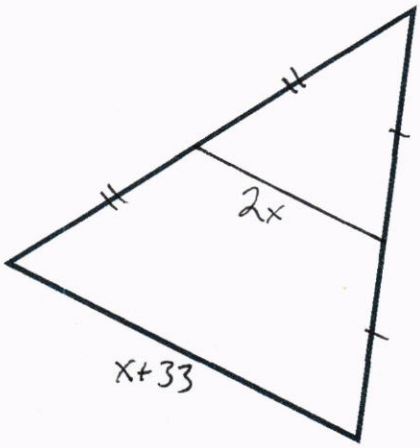

STATION 4 TRIANGLE INEQUALITY

Decide if a triangle could be made with the following side lengths: (yes/no)

25. 23, 8, 19
26. 108, 103, 15
27. 6, 9, 22
28. 5, 7, 13
29. 5, 7, 12
30. 5, 7, 11.9

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Describe the possible lengths of the third side of the triangle given two sides.

30. 4, 6, ___
31. 22, 35, ___
32. 18, 11, ___

33. In triangle ABC, $\overline{AB} = 12,\ \overline{BC} = 15,\ \overline{AC} = 22$
Name the angles from smallest to largest

34. In triangle XYZ, $m\angle A = 57°,\ m\angle B = 100°,\ m\angle C = 23°$
Name the sides from shortest to longest.

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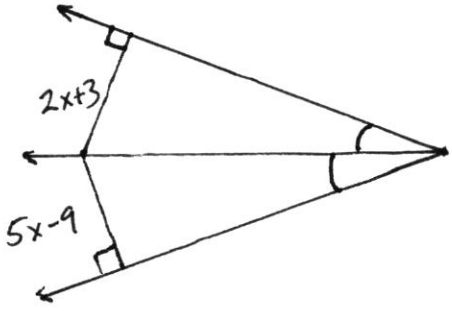
STATION 5 MISC

Find X

35.



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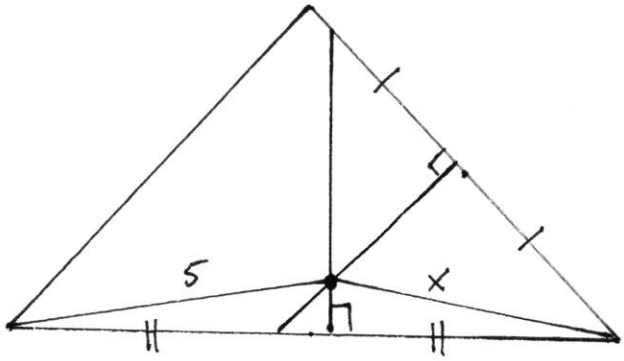

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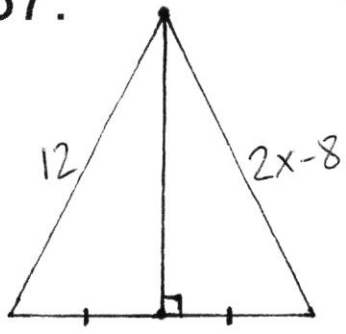
37.



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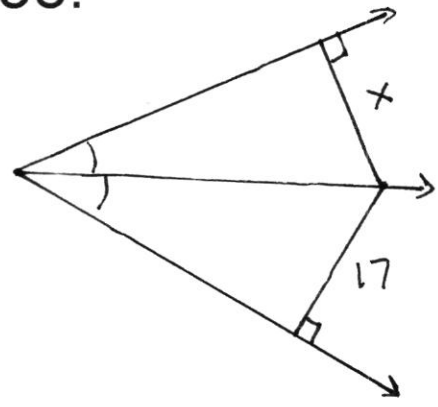

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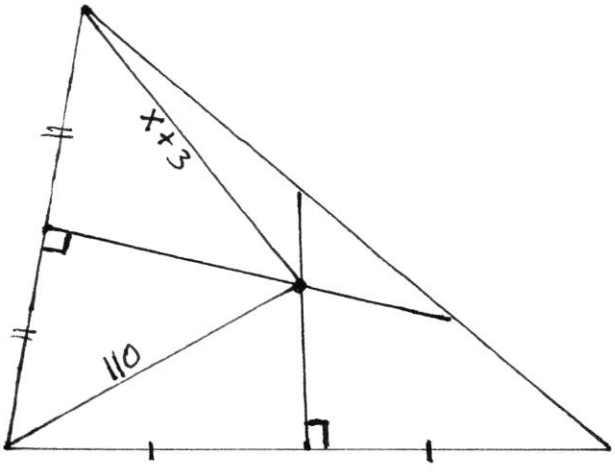

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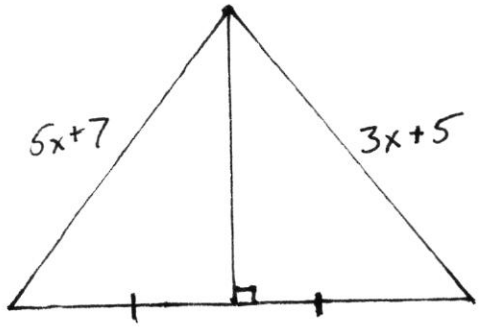

1 ⊥ bisector

2 altitude

3 midsegment

4 midsegment

5 median

6 angle bisector

7 Bisector

8 centroid

9 midpoint

10 $\overline{CB} = 14$ $\overline{BE} = 21$

11 $\overline{CG} = 11$ $\overline{AG} = 33$

12 $\overline{FC} = 4$ $\overline{CD} = 8$

13 $\overline{CA} = 6$ $\overline{AG} = 9$

14 $\overline{CF} = 10$ $\overline{BE} = 30$

15 $\overline{CG} = 5$ $\overline{AC} = 10$

16 $x = 10$

17 $x = 16$

18 $x + 1 = 5 \longrightarrow x = 4$

19 $5x = 60 \longrightarrow x = 12$

20 $x + 8 = 12 \longrightarrow x = 4$

21 $2x + 1 = 7 \longrightarrow x = 3$

22 $2(3x) = 5x + 4 \longrightarrow 6x = 5x + 4 \longrightarrow x = 4$

23 $2(x+1) = 3x - 1 \longrightarrow 2x + 2 = 3x - 1 \longrightarrow x = 3$

24 $2(2x) = x + 33 \longrightarrow 4x = x + 33 \longrightarrow x = 11$

25 yes

26 yes

27 NO

28 NO

29 NO

30 yes

30 $2 < x < 10$

31 $13 < x < 57$

32 $7 < x < 29$

33. $\angle C$, $\angle A$, $\angle B$

34. $\overline{AB}$, $\overline{BC}$, $\overline{AC}$

35. $2x+3=5x-9$

$3=3x-9$

$12=3x$

$4=x$

36 $x=5$

37 $2x-8=12$

$2x=20$

$x=10$

38 $x=17$

39 $x+3=110$

$x=107$

40

$5x+7=3x+5$

$2x+7=5$

$2x=-2$

$x=-1$